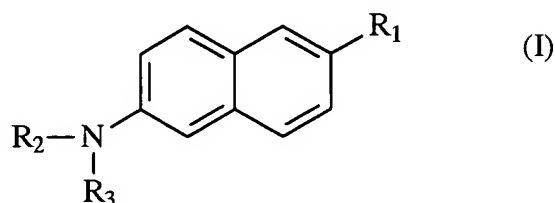


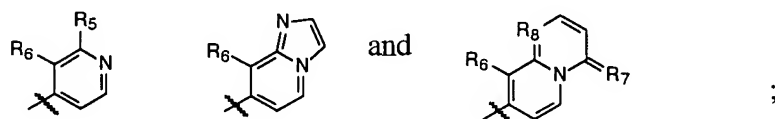
COMPOSITIONS FOR LABELING β -AMYLOID PLAQUES AND NEUROFIBRILLARY TANGLES

ABSTRACT

Compositions useful for labeling β -amyloid plaques and neurofibrillary tangles are provided. The compositions comprises compounds of formula (I):



wherein R_1 is selected from the group consisting of -C(O)-alkyl, -C(O)-alkylenyl- R_4 , -C(O)O-alkyl, -C(O)O-alkylenyl- R_4 , -C=C(CN)₂-alkyl, -C=C(CN)₂-alkylenyl- R_4 ,



wherein R_4 is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl; R_5 is a radical selected from the group consisting of -NH₂, -OH, -SH, -NH-alkyl, -NHR₄, -NH-alkylenyl- R_4 , -O-alkyl, -O-alkylenyl- R_4 , -S-alkyl, and -S-alkylenyl- R_4 ; R_6 is a radical selected from the group consisting of -CN, -COOH, -C(O)O-alkyl, -C(O)O-alkylenyl- R_4 , -C(O)-alkyl, -C(O)-alkylenyl- R_4 , -C(O)-halogen, -C(O)NH-alkyl, -C(O)NH-alkylenyl- R_4 and -C(O)NH₂; R_7 is a radical selected from the group consisting of O, NH, and S; and R_8 is N, O or S; and R_2 is selected from the group consisting of alkyl and alkylenyl- R_{10} and R_3 is alkylenyl- R_{10} , wherein R_{10} is selected from the group consisting of -OH, -OTs, halogen, spiperone, spiperone ketal, and spiperone-3-yl, or R_2 and R_3 together form a heterocyclic ring, optionally substituted with at least one radical selected from the group consisting of alkyl, alkoxy, OH, OTs, halogen, alkyl- R_{10} , carbonyl, spiperone, spiperone ketal and spiperone-3-yl, and further wherein one or more of the hydrogen, halogen or carbon atoms are optionally replaced with a radiolabel.

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